

**AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1           1.       (Original) A system comprising:  
2                   a light source emitting light at a selectively variable output power to transmit data at  
3       a given data rate; and  
4                   a monitor diode positioned to receive at least a portion of the emitted light, the  
5       monitor diode having a bandwidth only partially overlapping a lower end of a data transmission  
6       spectrum for the data rate.

1           2.       (Currently Amended) The system according to claim 1, wherein the bandwidth of  
2       the monitor diode is substantially less than ~~or equal to one tenth~~ of the data rate.

1           3.       (Currently Amended) The system according to claim 1, wherein the bandwidth of  
2       the monitor diode is less than or equal to between one tenth and one fortieth of the data rate.

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1           4.       (Original) The system according to claim 1, wherein the monitor diode functions as  
2       a low pass filter operating on the light emitted by the light source.

1           5.       (Currently Amended) The system according to claim 1, further comprising:  
2                   peak detectors with ~~exponential~~ decay detecting peak-to-peak amplitude of an output  
3       signal for the monitor diode, wherein the peak-to-peak amplitude is directly representative of optical  
4       modulation amplitude for the light source.

1           6.       (Currently Amended) The system according to claim 5, further comprising:  
2                   a controller employing the output signals from the peak detectors to control ~~output~~  
3       ~~power from~~ optical modulation amplitude or extinction ratio of the light source.

1           7.       (Original) An optical subassembly including the system according to claim 6, the  
2       optical subassembly adapted for transmission of data over an optical transmission medium.

1           8.     (Original) A computer including the optical subassembly according to claim 7, the  
2 computer further comprising:  
3                 a processor coupled to the controller; and  
4                 a network connection through the optical subassembly to the optical transmission  
5 medium.

1           9.     (Original) A method comprising:  
2                 emitting light from a light source at a selectively variable output power to transmit  
3 data at a given data rate; and  
4                 receiving at least a portion of the emitted light at a monitor diode, the monitor diode  
5 having a bandwidth only partially overlapping a lower end of a data transmission spectrum for the  
6 data rate.

1           10.    (Currently Amended) The method according to claim 9, wherein the bandwidth of  
2 the monitor diode is substantially less than ~~or equal to one tenth~~ of the data rate.

1           11.    (Currently Amended) The method according to claim 9, wherein the bandwidth of  
2 the monitor diode is less than or equal to between one tenth and one fortieth of the data rate.

1           12.   (Original) The method according to claim 9, further comprising:  
2                   low pass filtering the light emitted by the light source using the monitor diode.

1           13.   (Original) The method according to claim 9, further comprising:  
2                   detecting peak-to-peak amplitude of an output signal for the monitor diode, wherein  
3           the peak-to-peak amplitude is directly representative of optical modulation amplitude for the light  
4           source.

1           14.   (Currently Amended) The method according to claim 13, further comprising:  
2                   employing the peak-to-peak amplitude for the output signal for the monitor diodes  
3           to control ~~output power from~~ optical modulation amplitude or extinction ratio of the light source.

1           15.   (Original) A system comprising:  
2                   a signal source emitting a high frequency signal to transmit data at a given data rate;  
3           and  
4                   a monitor device receiving at least a portion of the emitted signal, the monitor device  
5           having a bandwidth only partially overlapping a lower end of a data transmission spectrum for the  
6           data rate.

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1           16.   (Currently Amended) The system according to claim 15, wherein the bandwidth of  
2 the monitor device is substantially less than ~~or equal to one tenth~~ of the data rate.

1           17.   (Currently Amended) The system according to claim 15, wherein the bandwidth of  
2 the monitor device is less than or equal to between one tenth and one fortieth of the data rate.

1           18.   (Original) The system according to claim 15, wherein the monitor device functions  
2 as a low pass filter operating on the high frequency signal emitted by the signal source.

1           19.   (Currently Amended) The system according to claim 15, further comprising:  
2                   peak detectors with ~~exponential~~ decay detecting peak-to-peak amplitude of an output  
3 signal for the monitor device.

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1           20.   (Original) The system according to claim 19, wherein the signal source is a light  
2   source emitting light to transmit data at the data rate, the monitor device is a low bandwidth monitor  
3   diode receiving at least a portion of the emitted light, and the peak-to-peak amplitude detected by  
4   the peak detectors is directly representative of optical modulation amplitude for the light source, the  
5   system further comprising:  
6           a controller employing the output signals from the peak detectors to control output  
7   power from the light source.